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Multi

P 292254Z
FM NPIC

1964 DEC 30 00 48Z

25X1

AFSSO USAFE
AFSSO PACAF

25X1

CNO

54759 30 DEC 1964

OPCEN

OUTGOING

COPIES RECEIVED			25X1
CyNo.	Office	Act.	
1	Mgmt Staff		
2	OS		
	ADMIN		
	SEC BR		
	PADS		25X1
	CTD		
	IED		
	PD		
	PID		
3	[redacted]	✓	
	PAO		
	CIA-RD		
	DIA/X-4		
	SPAD		
	NSA CO		
	DIAAP		
	Destroyed		

YWQLAZC/AFSSO SAC
YWQLAZC/AFSSO ACIC
YWQLAZC/AFSSO FTD
ZEM
T O P S E C R E T [redacted] SECTION ONE OF TWO

CITE NPIC 3579.

SUBJECT: CAMERA INFORMATION FOR MISSION 1015-1.

A. THIS PHOTOGRAPHY INVOLVES THE USE OF EIGHT CAMERAS: TWO MAIN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

B. OPERATIONAL FOCAL LENGTHS (MM)

	MAIN	HORIZON PORT	HORIZON STARBOARD	STELLAR	INDEX
FWD UNIT	609.602	54.89	54.93	(PART 1) 84.1149	37.8476
AFT UNIT	609.617	54.93	54.80	(PART 2) 83.8716	38.1999

C. LENS DISTORTION (PIN CUSHION) MM

(1) MAIN LENS 3 2 1 0

FWD UNIT .003 .002 .001 .000

AFT UNIT .006 .003 .001 .000

(2) HORIZON CAMERAS (MM)

	FWD PORT	FWD STARBOARD	AFT PORT	AFT STARBOARD
[redacted]				

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(RADIAL)	10 DEGREES	.001	.001	.009	.004
	20 DEGREES	.001	.002	.015	.004
(TANGENTIAL)	MAX VECTOR	.001	.004	.009	.007

D. DEPRESSION ANGLES OF HORIZON CAMERAS RELATIVE TO NOMIAL MAIN CAMERA

	PORT	STARBOARD
FWD	14 DEGREES 43 MIN.	15 DEGREES 02 MIN.
AFT	14 DEGREES 43 MIN.	15 DEGREES 16 MIN.

E. CAMERA FILTER AND EXPOSURE DATA

		MAIN	HORIZON	STELLAR	INDEX
FILTER	(FWD)	WRATTEN 25	WRATTEN 25	NONE	WRATTEN 21
	(AFT)	WRATTEN 21			
APERTURE		F 3.5	STARBOARD F 8.0	F 1.8	F 4.5
			PORT F 6.8		
SLIT WIDTH/EXPOSURE	(FWD)	.250 IN.	1/100 SEC.	2.0 SEC.	1/500 SEC.
	(AFT)	.175 IN.			
FILM		4404	4404	4401	4400

F. RESOLUTION CAPABILITIES

(1) (L/MM AVG)	MAIN	PORT HORIZON	STARBOARD HORIZON
FWD	164	94	114
AFT	165	111	106

(2) INDEX (L/MM AWAR) PART 1 74.3 PART 2 70.5

G. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

H. CALIBRATED ANGLES OF CAMERAS

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(1) CALIBRATED CONVERGENT ANGLE OF MAIN CAMERAS 29 DEGREES 53.41 MIN.

(2) CALIBRATED ANGLE BETWEEN STELLAR AND INDEX CAMERAS

(PART 1) 89 DEGREES 56 MIN.

(PART 2) 90 DEGREES 03 MIN.

I. IMAGE MOTION COMPENSATION DATA

A. CYCLE RATE (CPS) AND GROUND ANGULAR VELOCITY (GAV IN RAD/SEC)

REF. LEVEL			AMPL. LEVEL		
NO.	CPS.	GAV.	NO.	CPS.	GAV.
7	.3265	.0295	5	.1102	.0100
7	.3263	.0295	4	.1198	.0108
6	.3269	.0296	4	.1304	.0118

B. PASSES: REF. 7, AMPL. 5:1D1 THRU 22D2

REF. 7, AMPL. 4:24D1 THRU 47D1

REF. 6, AMPL. 4:52D1 THRU 79D1

J. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZEBRA TIME)				PROGRAM ON TIME UP RAMP	PROGRAM DURATION
	DAY	HOUR	MIN	SEC	SEC	SEC
1D1	19	22	39	38	1385	39
3D1	20	01	40	28	1360	73
4D1	20	03	09	29	1262	269
5D1	20	04	40	10	1314	205
5D2	20	04	45	47	1651	86
6D1	20	06	11	41	1317	73
6D2	20	06	15	41	1557	330

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8D1	20	09	11	16	1147	108
8D2	20	09	15	20	1391	149
9AE	20	10	22	56	138	49
10D1	20	12	26	28	2123	176
14D1	20	18	24	19	1874	71
16D1	20	21	21	36	1653	38
20D1	21	03	17	33	1299	99
20D2	21	03	19	50	1436	80
21D1	21	04	50	16	1434	71
21D2	21	04	53	24	1622	63
21D3	21	04	55	27	1745	137
22D1	21	06	19	24	1352	73
22D2	21	06	25	56	1745	192
24D1	21	09	19	35	1306	140
24D2	21	09	23	46	1557	56
26D1	21	12	37	14	2310	55
30D1	21	18	28	44	1957	71
30D2	21	18	32	09	2163	70
31D1	21	20	00	22	1758	56
35D1	22	01	55	07	1332	58
35D2	22	01	58	08	1513	57
36D1	22	03	27	33	1451	72
36D2	22	03	29	39	1578	72
37D1	22	04	57	46	1437	105
37D2	22	05	04	30	1841	123
38D1	22	06	27	42	1407	161

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38D2	22	06	31	40	1645	55
38D3	22	06	33	44	1769	115
38D4	22	06	41	07	2211	93
39D1	22	07	57	04	1342	90
39D2	22	07	59	10	1467	60
39D3	22	08	00	45	1563	62
41D1	22	10	59	52	1455	78
47D1	22	20	07	05	1726	129
52D1	23	03	33	23	1373	206
53D1	23	05	03	52	1375	124
53D2	23	05	08	41	1663	64
53D3	23	05	10	21	1764	246
54D1	23	06	35	27	1444	177
56AE	23	09	16	33	260	47
57D1	23	11	07	39	1500	103
63D1	23	20	15	09	1796	47
66D1	24	00	40	37	1447	113
67D1	24	02	10	23	1410	236
69D1	24	05	11	52	1447	89
69D2	24	05	16	14	1709	68
69D3	24	05	17	59	1814	157
69D4	24	05	26	57	2353	62
69D5	24	05	28	37	2452	46
70D1	24	06	41	41	1411	122
70D2	24	06	44	56	1606	87
71D1	24	08	12	10	1419	235

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72AE	24	09	23	54	298	49
73D1	24	11	29	19	2366	96
77D1	24	17	24	56	1999	64
79D1	24	20	22	12	1787	39

NOTE: DATA IS THE SAME FOR BOTH THE MASTER (FWD) AND SLAVE (AFT) UNITS.

K. TIME CORRELATION (MILLISECONDS)

PASS	SYSTEM TIME	CLOCK TIME	DIFFERENCE
09	37345.266	102153.105	------
16	76952.912	141760.761	0.010
25	37526.884	188734.745	0.012
31	72101.596	223309.466	0.009
41	38229.084	275836.967	0.013
47	72574.359	310182.251	0.009
56	33457.126	357465.030	0.012
63	73025.182	397033.096	0.010
72	33482.973	443890.899	0.012
79	73391.552	483799.488	0.010

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

L. REMARKS

THE S/I UNIT NUMBERS ARE:

(PART 1) D61/61/61

(PART 2) D58/58/58

GP-1

T O P S E C R E T

--END OF MESSAGE--

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